

IN THE CLAIMS

Pursuant to 37 CFR §121(c), the claim listing, including the text of the claims, will serve to replace all prior versions of the claims, in the application.

Please cancel claims 1 thru 33 without prejudice or disclaimer, and add claims 34 thru 48 as follows:

Claims 1-33. (Cancelled)

1 34. (New) A system for operating wired and wireless phone services
2 interconnectively, the system comprising:

3 a wired exchange connected to a public switched telephone network (PSTN), for
4 providing a wired phone service;

5 a mobile gateway connected to the wired exchange for assigning virtual wired
6 phone numbers to a plurality of mobile communication terminals, for providing a public
7 wired phone service to the mobile communication terminals by linking the virtual wired
8 phone numbers with mobile identifier numbers (MINs) of the mobile communication
9 terminals, and for distributing a call to a wired terminal and then to a wireless terminal
10 when it is determined that a phone number received from the wired exchange is a
11 simultaneously called phone number ; and

12 a private base station controller (pBSC) connected to the mobile gateway and a
13 public land mobile network (PLMN) for providing a mobile communication service to the
14 mobile communication terminals through a private base station transceiver system
15 (pBTS).

1 35. (New) The system according to claim 34, wherein the mobile gateway calls a
2 mobile communication terminal corresponding to the virtual wired phone number when
3 receiving an incoming call containing the virtual wired phone number through the wired
4 exchange.

1 36. (New) The system according to claim 34, wherein the mobile gateway
2 comprises a database for storing, for each arbitrary wired phone number, information
3 indicating whether or not each of the wired phone numbers is a virtual phone number and
4 information about whether or not a multiple terminating service is registered.

1 37. (New) The system according to claim 36, wherein the mobile gateway
2 simultaneously calls a wired terminal corresponding to the wired phone number and the
3 mobile communication terminal when the wired phone number is registered with the
4 multiple terminating service and is called.

1 38. (New) The system according to claim 34, wherein the pBSC comprises a
2 database for storing the virtual wired phone number assigned to each of the mobile
3 communication terminals and the MIN of the mobile communication terminal
4 corresponding to the virtual wired phone number.

1 39. (New) The system according to claim 34, wherein the mobile gateway assigns
2 an extension subscriber line card (SLC) of a wired phone connected to a trunk thereof
3 with the SLC thereof, and connects the assigned extension SLC to a plurality of wired
4 terminals.

1 40. (New) The system according to claim 34, wherein, when receiving a request
2 for an outgoing service from an internal mobile communication terminal, the mobile
3 gateway changes caller identification (CID) to the virtual wired phone number assigned
4 to the internal mobile communication terminal, and calls a called terminal via the PSTN.

1 41. (New) A method for operating wired and wireless phone services
2 interconnectively, the method comprising the steps of:

3 assigning, by a mobile gateway, virtual wired phone numbers to a plurality of
4 mobile communication terminals;

5 providing, by the mobile gateway, a public wired phone service to the mobile
6 communication terminals by linking the virtual wired phone numbers with mobile
7 identifier numbers (MINs) of the mobile communication terminals;

8 determining whether a called phone number received by a wired exchange is a
9 wired subscriber phone number when a subscriber terminal calls a wired phone number;

10 analyzing, by the mobile gateway, the phone number received from the wired
11 exchange to determine whether the phone number is a simultaneously called phone
12 number; and

13 distributing, by the mobile gateway, the call to a wired terminal and then to a
14 wireless terminal when it is determined that the phone number is the simultaneously
15 called phone number.

1 42. (New) The method according to claim 41, wherein in the step of providing the
2 public wired phone service, when a called number containing an incoming call received
3 through a wired exchange is a virtual wired phone number, the mobile gateway transmits
4 the incoming call to the mobile communication terminal corresponding to the virtual
5 wired phone number.

1 43. (New) The method according to claim 41, further comprising the step of
2 providing the mobile gateway with a database for storing, for each arbitrary wired phone
3 number, information indicating whether or not each of the wired phone numbers is a
4 virtual phone number and information about whether or not a multiple terminating
5 service is registered.

1 44. (New) The method according to claim 43, further comprising the step of
2 simultaneously calling, by the mobile gateway, a wired terminal corresponding to the
3 wired phone number and the mobile communication terminal when the wired phone
4 number registered with the multiple terminating service is called.

1 45. (New) The method according to claim 44, further comprising the step of
2 rerouting, by the mobile gateway, an incoming call to one of a public switched telephone
3 network (PSTN) and a public land mobile network (PLMN) when the called wired
4 terminal and the mobile communication terminal make no response.

1 46. (New) The method according to claim 41, further comprising the step of, when
2 the mobile gateway receives a request for an outgoing service from an internal mobile
3 communication terminal, changing, by the mobile gateway, a caller identification (CID)
4 to the virtual wired phone number assigned to the internal mobile communication
5 terminal, and calling a called terminal via the public switched telephone network (PSTN).

1 47. (New) The method according to claim 46, further comprising the step of
2 performing, by billing equipment existing at a central office of the PSTN, billing of
3 communication between the internal mobile communication terminal and a called

4 external terminal.

1 48. (New) The method according to claim 46, further comprising the step of
2 performing, by the mobile gateway, billing of communication between the internal
3 mobile communication terminal and a called extension subscriber terminal.